

Figure 1A

Synthetic Oligonucleotide DNA Family Encoding
Anti-Green Fluorescent Protein Ribozymes

1)	5'	-CCAGCTC	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACCAGGA	-3'
	3'	-GGTCGAG	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGGTCCT	-5'
2)	5'	-GGCCGTT	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACGTCGC	-3'
	3'	-CCGGCAA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGCAGCG	-5'
3)	5'	-CTCGCCG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACACGCT	-3'
	3'	-GAGCGGC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGTGCGA	-5'
4)	5'	-GCAGATG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACTTCAG	-3'
	3'	-CGTCTAC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGAAGTC	-5'
5)	5'	-TGGTCAC	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AGGGTGG	-3'
	3'	-ACCAAGT	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TCCCACC	-5'
6)	5'	-AGCGGCT	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AGGCACT	-3'
	3'	-TCGCCGA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TCCGTGA	-5'
7)	5'	-CATGGCG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACTTGAA	-3'
	3'	-GTACCGC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGAACCT	-5'
8)	5'	-GCTCCTG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACGTAGC	-3'
	3'	-CGAGGAC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGCATCG	-5'
9)	5'	-CGTCCTT	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AAGAAGA	-3'
	3'	-GCAGGAA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TTCTTCT	-5'

Figure 1B

Synthetic Oligonucleotide DNA Family Encoding
Anti-Green Fluorescent Protein Ribozymes

10)	5'	-CGCCCTC	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AACTTCA-3'
	3'	-GCGGGAG	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TTGAAGT-5'
11)	5'	-TGCGGTT	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACCAGGG-3'
	3'	-ACGCCAA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGGTCCC-5'
12)	5'	-CCTCCTT	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AAGTCGA-3'
	3'	-GGAGGAA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TTCAGCT-5'
13)	5'	-GTAGTTG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACTCCAG-3'
	3'	-CATCAAC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGAGGTC-5'
14)	5'	-TGATATA	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACGTTGT-3'
	3'	-ACTATAT	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGCAACA-5'
15)	5'	-GGATCTT	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AAGTTCA-3'
	3'	-CCTAGAA	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TTCAAGT-5'
16)	5'	-GGTCGGC	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AGCTGCA-3'
	3'	-CCAGCCG	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TCGACGT-5'
17)	5'	-GCAGCAG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACGGGGC-3'
	3'	-CGTCGTC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGCCCCG-5'
18)	5'	-CAGGGCG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACTGGGT-3'
	3'	-GTCCCGC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGACCCA-5'

Figure 1C

Synthetic Oligonucleotide DNA Family Encoding
 Anti-Green Fluorescent Protein Ribozymes

19)	5'	-CCAGCAG	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	ACCATGT	-3'
	3'	-GGTCGTC	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TGGTACA	-5'
20)	5'	-CCATGCC	C	TGA	TGA	GTC	CGT	GAG	GAC	GAC	GAA	AGAGTGA	-3'
	3'	-GGTACGG	G	ACT	ACT	CAG	GCA	CTC	CTG	CTG	CTT	TCTCACT	-5'

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A.

pGEM-Sca/Pvu AGT ACT TTC GGC ATC ACT GCC TCA TCA TCA GCT GGG
 pGEM-oligo1/3 AAG CTT TTC GGC ATC ACT GCC TCA TCA AGA ATT CGG

B.

pGEMEX-Sma/Kpn GCC AGT ACC GAT GGA GGC AGT GAT GCC GAA CCC GGG GGC CCG
 CGG TCA TGG GCT ACT CCG TCA CTA CGG CTT GGG CCC CCG GGC

pGEMEX-oligo2/3 CCG AAT TCT TGA TGA GGC AGT GAT GCC GAA AAG CTT GGC CCG
 GGC TTA AGA ACT ACT CCG TCA CTA CGG CTT TTC GAA CCG GGC

Fig. 2

2037ED-266T0960

Clone 1: CCG GCC AAG CTT TTC GGC ATC ACT ACT GCC TCA TCA GGA ATT CCG CCG CAT GCA
 Clone 2: CCG GCC AAG CTT TTC GGC ATC ACT ACT GCC TCA TCA GGA ATT CCG CCG CAT GCA
 Clone 3: CCG GCC AAG CTT TTC GGC ATC ACT ACT GCC TCA TCA GGA ATT CCG CCG CAT GCA
 pGEMEX: CCG GCC CTC TAG ATG CCG CAT GCA

Fig. 3

208T20 260T0960

Clone 1:	GGC	CTG	CAA	AGC	TTT	TCG	GCA	TCA	CTG	CCT	CAT	CAG	GAA	TTC	GGC	CTG	CAT	AAG	CTT
Clone 2:	GGC	TG	CAA	AGC	TTT	TCG	GCA	TCA	CTG	CCT	CAT	CAG	GAA	TTC	GGC	CTG	CAT	AAG	CTT
Clone 3:	GGC	CTG	CAA	AGC	TTT	TCG	GCA	TCA	CTG	CCT	CAT	CAG	GAA	TTC	GGC	CTG	CAT	AAG	CTT
pGEMEX:	GGC	CGC	A													TG	CAT	AAG	CTT

Fig. 4